

210
101
WHAT IS CLAIMED IS:

1. In a radio communication system in which data is
2 communicated between a first communication station and a second
3 communication station upon a communication channel, an improvement
4 of apparatus for selectively permitting communication of data by the
5 first communication station to the second communication station,
6 said apparatus comprising:
7 a detector positioned at the first communication station,
8 said detector for detecting closed-loop power control commands
9 communicated to the first communication station by the second
10 communication station;
11 a measurer coupled to said detector, said measurer for
12 measuring indications of the power control commands during at least
13 a selected time period; and
14 a decision maker coupled to said measurer to receive
15 measured values measured by said measurer, said decision maker for
16 comparing the measured values with a threshold value, and for
17 selectively generating a data communication permission command
18 responsive to comparisons made thereat.

1 2. The apparatus of claim 1 wherein the closed-loop power
2 control commands to which said detector is positioned to detect are
3 of first values to indicate to the first communication station that
4 communication-signal power levels are to be increased and are of
5 second values to indicate to the first communication station that
6 communication-signal power levels are to be decreased.

1 3. The apparatus of claim 1 wherein the radio communication
2 system is operable pursuant to a first communication service and at
3 least a second communication service, the data communicated
4 pursuant to effectuation of the second communication service and
5 wherein the closed-loop power control commands to which said
6 detector is coupled to receive are communicated pursuant to
7 effectuation of the first communication service.

1 4. The apparatus of claim 3 wherein communications
2 effectuated pursuant to the first communication service include
3 communications effectuated by way of a dedicated air interface link
4 and wherein communication of the data, permitted responsive to
5 generation of the data communication-permission command by said
6 decision maker, is effectuated pursuant to the second communication
7 service.

SP
P1
2 5. The apparatus of claim 4 wherein the second communication
service, pursuant to which the communication of the data is
3 permitted responsive to generation of the data communication-
4 permission command by said decision maker, comprises a data
5 delivery service.

1 6. The apparatus of claim 5 wherein the data burst delivery
2 service comprises a WAP (wireless application protocol)-based
3 service and wherein the data burst, communication of which is
4 selectively permitted responsive to comparisons made by said
5 comparator, comprises a WAP-protocol data.

1 7. The apparatus of claim 5 wherein the data burst delivery
2 service comprises an IP (internet-protocol)-formatted delivery
3 service and wherein the data, communication of which is selectively
4 permitted responsive to comparisons made by said decision maker,
5 comprises an IP-formatted data burst.

1 8. The apparatus of claim 7 wherein the radio communication
2 system comprises a cellular communication system which provides for
3 SMS (short message service) messaging, and wherein the data burst,
4 communication of which is selectively permitted responsive to
5 comparisons made by said decision maker, comprises an SMS message.

SPY 9. The apparatus of claim 7 wherein the IP-formatted
1 delivery service comprises a GUTS (Generalized UDP Transport
2 Service)-formatted service and wherein the data burst,
3 communication of which is selectively permitted responsive to
4 comparisons made by said comparator, comprises a GUTS-formatted
5 data burst.

10. The apparatus of claim 1 wherein the radio communication
1 system comprises a cellular communication system operable pursuant
2 to a CDMA (code-division, multiple-access) communication scheme,
3 wherein the first communication station comprises a cellular-system
4 base transceiver station and the second communication station
5 comprises a cellular-system mobile station, and wherein the closed-
6 loop power control commands to which said detector is coupled to
7 receive are communicated by the mobile station to the base
8 transceiver station.

11. The apparatus of claim 1 wherein said measurer comprises
1 a summer for summing together values of the power control commands
2 during the at least the selected time period.

1 12. The apparatus of claim 11 wherein a plurality of the
2 power control commands are communicated to the first communication
3 station during the selected time period.

1 13. The apparatus of claim 12 wherein the power control
2 commands comprise binary values indicative, alternately, of power-
3 up and power-down commands and wherein sums summed by said summer
4 define average power control commands during the selected time
5 period.

14. The apparatus of claim 13 wherein the threshold value
14. The apparatus of claim 13 wherein the threshold value
1 with which the summed values formed by the summer of which said
2 measurer is comprised is selected such that summed values which
3 exceed the threshold value prevents generation of the data
4 communication-permission command.

1 15. The apparatus of claim 14 wherein the data communication
2 permission command is generated when the summed values are less
3 than the threshold value.

16. In a method for communicating in a radio communication
system in which data is communicated between a first communication
station and a second communication station when a communication
channel, an improvement of a method for selectively permitting
communication of data by the first communication station to the
second communication station, said method comprising:

detecting, at the first communication station, closed-loop power control commands communicated to the first communication station by the second communication station;

measuring indications of the power control commands detected during said operation of detecting during at least a selected time period;

comparing values of the indications of the power control commands measured during said operation of measuring with a threshold value; and

selectably generating a data communication permission command responsive to comparisons made during said operation of comparing.

1 17. The method of claim 16 wherein the radio communication
2 system is operable pursuant to a first communication service and at
3 least a second communication service, the data communicated
4 pursuant to effectuation of the second communication service, and
5 wherein the closed-loop power control commands detected during said
6 operation of detecting are communicated to the first communication
7 station pursuant to effectuation of the first communication
8 service.

1 18. The method of claim 16 wherein communication of the burst
2 data, selectively permitted responsive to generation of the
3 communication permission command generated during said operation of
4 selectively generating, is communicated pursuant to a data burst
5 delivery service.

1 19. The method of claim 16 wherein said operation of
2 measuring comprises summing together values of the indications of
3 the power control commands during the selected time period.

1 20. The method of claim 16 wherein the data communication
2 permission command is generated during said operation of selectively
3 generating when the values of the indications of the power control
4 commands are beneath the threshold value.